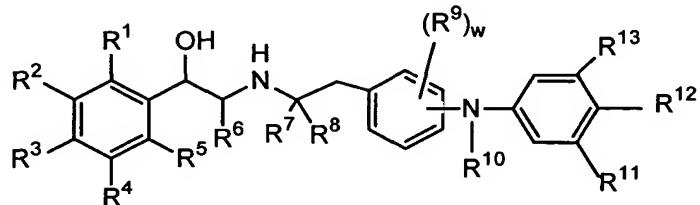


## ABSTRACT OF THE DISCLOSURE

The invention provides novel  $\beta_2$  adrenergic receptor agonist compounds of  
5 formula (I):



(I)

wherein R<sup>1</sup>-R<sup>13</sup> and w have any of the values described in the specification. The invention also provides pharmaceutical compositions comprising such compounds, methods of using such compounds to treat diseases associated with  $\beta_2$  adrenergic receptor  
10 activity, and processes and intermediates useful for preparing such compounds.